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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/017,425	12/18/2001	Kyung Sam Seo	HI-0067	6323
34610	7590	08/23/2005	EXAMINER	
FLESHNER & KIM, LLP			CORRIELUS, JEAN B	
P.O. BOX 221200			ART UNIT	PAPER NUMBER
CHANTILLY, VA 20153			2637	

DATE MAILED: 08/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/017,425

Applicant(s)

SEO ET AL.

Examiner

Jean B. Corrielus

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 June 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☒ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-23 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-23 is/are allowed.
- 6) ☐ Claim(s) _____ is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Objections

1. Claims 1- 23 are objected to because of the following informalities: claim 1, line 4, is the "a mobile station" different than "the mobile communication system" recited in lines 1-2, if so, "a mobile station" should be replaced by "a remote mobile station"; line 5, shouldn't "pilot symbol section" be replaced by "pilot symbol signal"? the same comment applies to lines 12-13 and to any other claims reciting similar limitation; line 6, what does it mean by "symbol section"? the same comment applies to lines 13-14 and to any other claims reciting similar limitation; line 12, "value" should be "values" so as to be consistent with recitation in line 9. claim 8, line 1, after amended, please insert ")". Claim 12, does "over" mean "divided"? the same comment applies to claim 16. Claim 14, last line, what does it mean by "the number of values"? claim 18, lines 3-4, is the "a mobile station" different than "the mobile communication system" recited in lines 1-2, if so, "a mobile station" should be replaced by "a remote mobile station"; last line, what does it mean by "the number of values". Claim 20, last line, "second" should be replaced by "first". claim 21, line 4, "a" should be replaced by "the/said", in both occurrences. Claim 22, last line, ",", should be replaced by ".". claim 22 appears to be incomplete because the conditional "if" clause opened in line 1 is not closed in subsequent recitation in the claim. In addition, what does it mean by "satisfies $256 \text{ over } 2^k (K=0-6)$?"; line before last, what does it mean by " $(256 \text{ over } SFk) \text{ over } \{(256 \text{ over } SFk)+1\}$ " and " $(1 \text{ over } \{(256 \text{ over } SFk) +1\})$? Claim 23, line 4, is the "a mobile station"

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different than "the mobile communication station" recited in lines 1-2, if so, "a mobile station" should be replaced by "a remote mobile station". The same comment applies to claim 14.

Note that any claim whose base claim is objected is likewise objected.

Appropriate correction is required.

Conclusion

2. This application is in condition for allowance except for the formal matters noted above.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

3. Claims 1-23 would be allowable if amended to overcome the objection set forth above.

Response to Arguments


4. Applicant's arguments, see pages 27 and 28 of the response, filed on 6/9/05, with respect to the claim rejection and/or objection have been fully considered and are persuasive. The claim objection and/or rejection has been withdrawn.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean B. Corrielus whose telephone number is 571-272-3020. The examiner can normally be reached on Maxi-Flex.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on 571-272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-272-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Jean B Corrielus
Primary Examiner
Art Unit 2637 8/20/05